

## INCREMENTAL ROUTING IN INTEGRATED CIRCUIT DESIGN

ABSTRACT

A method for completing the routing of a partially routed design is provided. The unrouted pins are routed to generate a first plurality of nets that may contain shorts or overlaps between the nets. The nets are analyzed to obtain timing information, and then divided into a set of critical and a set of non-critical nets. The non-critical nets are hidden, and the critical nets are rerouted to remove overlaps. The non-critical nets are then unhidden. The non-critical nets and rerouted critical nets are then rerouted so as to remove overlaps.